

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (Currently Amended): A coil for an electric rotating machine, comprising:
a conductor configured by bundling a plurality of square strands and stacking the square strands like a coil with Roebel transposition;
mica tape which is wound a plurality of layers around on surface of the conductor and made up of mica paper and cloth backing material;
an insulation layer formed with impregnating and curing resin between wound layers of the mica tape; and
inorganic particles supported with the mica tape using an adhesive comprising a first component having mutual dissolubility with the impregnating resin and a second glue component insoluble in the impregnating resin, the second glue provided in an amount sufficiently small so as not to inhibit impregnation of impregnating resin, yet sufficiently large so as to impede outflow of said inorganic particles.

Claim 2 (Currently Amended): A coil for an electric rotating machine, comprising:
a conductor configured by bundling a plurality of square strands and stacking the square strands like a coil with Roebel transposition;
mica tape which is wound a plurality of layers around an outer surface of the conductor and made up of mica paper and cloth backing material;
an insulation layer formed by impregnating and curing resin between wound layers of the mica tape; and

inorganic particles supported with the cloth backing material of the mica tape using an adhesive comprising a first component having mutual dissolubility with the impregnating resin and a second glue component insoluble in the impregnating resin, the second glue provided in an amount sufficiently small so as not to inhibit impregnation of impregnating resin, yet sufficiently large so as to impede outflow of said inorganic particle.

Claim 3 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is a polyvinyl-based polymer.

Claim 4 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is 0.5 wt% to 5 wt% with respect to the adhesive.

Claim 5 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is a polyvinyl-based polymer, and the polyvinyl-based polymer is 0.5 wt% to 5 wt% with respect to the adhesive.

Claim 6 (Original): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the inorganic particles include at least one of aluminum oxide (Al₂O₃), beryllium oxide (BeO), magnesium oxide (MgO), aluminum nitride (AlN), boron nitride (BN), and silicon carbide (SiC).

Claim 7 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is polyvinyl alcohol.

Claim 8 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is polyvinyl alcohol, and the polyvinyl alcohol is 0.5 wt% to 5 wt% with respect to the adhesive.

Claim 9 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is polyvinyl acetal.

Claim 10 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive is polyvinyl acetal, and the polyvinyl acetal is 0.5 wt% to 5 wt% with respect to the adhesive.

Claim 11 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive includes at least one of polyvinyl alcohol and polyvinyl acetal.

Claim 12 (Previously Presented): The coil for an electric rotating machine according to one of claims 1 and 2, wherein the second glue component contained in the adhesive

includes at least one of polyvinyl alcohol and polyvinyl acetal and is 0.5 wt% to 5 wt% with respect to the adhesive.

Claim 13 (Currently Amended): Mica tape used for insulating a coil of an electric rotating machine, comprising:

mica paper;

glass cloth backing of the mica paper; and

inorganic particles supported by the glass cloth backing using an adhesive containing a first component having mutual dissolubility with an impregnating resin and a second glue component insoluble in the impregnating resin, the second glue provided in an amount sufficiently small so as not to inhibit impregnation of impregnating resin, yet sufficiently large so as to impede outflow of said inorganic particle.

Claim 14 (Previously Presented): The mica tape according to claim 13, wherein the second glue component of the adhesive is a polyvinyl-based polymer, and the inorganic particles are aluminum oxide particles.

Claim 15 (Previously Presented): The mica tape according to claim 13, wherein the second glue component of the adhesive is a polyvinyl-based polymer, and the inorganic particles are boron nitride particles.

Claim 16 (Currently Amended): A mica sheet used for insulating a coil of an electric rotating machine, comprising:

mica paper;

glass cloth backing of the mica paper; and
inorganic particles supported by the glass cloth backing using an adhesive containing
a first component having mutual dissolubility with an impregnating resin and a second glue
component insoluble in the impregnating resin, the second glue provided in an amount
sufficiently small so as not to inhibit impregnation of impregnating resin, yet sufficiently
large so as to impede outflow of said inorganic particle.

Claim 17 (Previously Presented): The mica sheet according to claim 16, wherein the
second glue component of the adhesive is a polyvinyl-based polymer, and the inorganic
particles are aluminum oxide particles.

Claim 18 (Previously Presented): The mica sheet according to claim 16, wherein the
second glue component of the adhesive is a polyvinyl-based polymer, and the inorganic
particles are boron nitride particles.